

## PATENT COOPERATION TREATY

PCT

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

REC'D 26 JAN 2004

WIPO PCT

Applicant's or agent's file reference 01056WO	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/US02/15296	International filing date (day/month/year) 14 MAY 2002	Priority date (day/month/year) 15 MAY 2001
International Patent Classification (IPC) or national classification and IPC Please See Supplemental Sheet.		
Applicant QUALCOMM INCORPORATED		

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.

2. This REPORT consists of a total of 4 sheets.

☒ This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority. (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

These annexes consist of a total of 2 sheets.

3. This report contains indications relating to the following items:

I ☒ Basis of the report

II ☐ Priority

III ☐ Non-establishment of report with regard to novelty, inventive step or industrial applicability

IV ☐ Lack of unity of invention

V ☒ Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

VI ☐ Certain documents cited

VII ☐ Certain defects in the international application

VIII ☐ Certain observations on the international application

CORRECTED  
VERSION

Date of submission of the demand 13 DECEMBER 2002	Date of completion of this report 02 SEPTEMBER 2003
Name and mailing address of the IPEA/US Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231	Authorized officer JEAN A GELIN <i>Ruggerio Zagan</i>
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## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/US02/15296

**I. Basis of the report**1. With regard to the **elements** of the international application:\*

- ☐ the international application as originally filed
- ☒ the description:  
pages (See Attached) \_\_\_\_\_, as originally filed  
pages \_\_\_\_\_, filed with the demand  
pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_
- ☒ the claims:  
pages (See Attached) \_\_\_\_\_, as originally filed  
pages \_\_\_\_\_, as amended (together with any statement) under Article 19  
pages \_\_\_\_\_, filed with the demand  
pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_
- ☒ the drawings:  
pages (See Attached) \_\_\_\_\_, as originally filed  
pages \_\_\_\_\_, filed with the demand  
pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_
- ☒ the sequence listing part of the description:  
pages (See Attached) \_\_\_\_\_, as originally filed  
pages \_\_\_\_\_, filed with the demand  
pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_

2. With regard to the **language**, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.  
These elements were available or furnished to this Authority in the following language \_\_\_\_\_ which is:

- ☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
- ☐ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in printed form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. ☒ The amendments have resulted in the cancellation of:

- ☒ the description, pages NONE
- ☒ the claims, Nos. NONE
- ☒ the drawings, sheets/fig NONE

5. ☒ This report has been drawn as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).\*\*

\* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).

\*\*Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

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**V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement****1. statement**

Novelty (N)	Claims	<u>1-8</u>	YES
	Claims	<u>NONE</u>	NO
Inventive Step (IS)	Claims	<u>NONE</u>	YES
	Claims	<u>1-8</u>	NO
Industrial Applicability (IA)	Claims	<u>1-8</u>	YES
	Claims	<u>NONE</u>	NO

**2. citations and explanations (Rule 70.7)**

Claims 1-8 meet the criteria set out in PCT Article 33(2)-(4), because the prior art does not teach or fairly suggest triggering the target communication device to re-establish its traffic channel and storing the dormant-wakeup trigger for later transmission to the target communication device.

----- NEW CITATIONS -----

NONE

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

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**Supplemental Box**

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: Boxes I - VIII

Sheet 10

**CLASSIFICATION:**

The International Patent Classification (IPC) and/or the National classification are as listed below:  
IPC(7): H04Q 1/00; H04B 7/00 and US Cl.: 455/415, 417, 420, 518, 519, 343, 574.  
340/7.32, 7.33, 7.21, 10.34, 10.33.

**I. BASIS OF REPORT:**

This report has been drawn on the basis of the description,  
page(s) 1-26, as originally filed.  
page(s) NONE, filed with the demand.  
and additional amendments:  
NONE

This report has been drawn on the basis of the claims,  
page(s) NONE, as originally filed.  
page(s) NONE, as amended under Article 19.  
page(s) NONE, filed with the demand.  
and additional amendments:  
pages 27-28 filed with the letter of 29 May 2003.

This report has been drawn on the basis of the drawings,  
page(s) 1-7, as originally filed.  
page(s) NONE, filed with the demand.  
and additional amendments:  
NONE

This report has been drawn on the basis of the sequence listing part of the description:  
page(s) NONE, as originally filed.  
pages(s) NONE, filed with the demand.  
and additional amendments:  
NONE

5. (Some) amendments are considered to go beyond the disclosure as filed:  
NONE

## CLAIMS

- [c1] 1. A method for reducing latency in a group communication network, the method comprising:
- receiving a dormant-wakeup trigger directed to a target communication device;
  - triggering the target communication device to re-establish its traffic channel; and
  - storing the dormant-wakeup trigger for later transmission to the target communication device.
- [c2] 2. The method of claim 1, further including:
- transmitting the stored dormant-wakeup trigger to the target mobile as soon as the target mobile has re-established a traffic channel.
- [c3] 3. A computer-readable medium embodying a method for reducing latency in a group communication network, the method comprising:
- receiving a dormant-wakeup trigger directed to a target communication device;
  - triggering the target communication device to re-establish its traffic channel; and
  - storing the dormant-wakeup trigger for later transmission to the target communication device.
- [c4] 4. The computer-readable medium of claim 3, wherein the method further includes:
- transmitting the stored dormant-wakeup trigger to the target mobile as soon as the target mobile has re-established a traffic channel.
- [c5] 5. An apparatus for reducing latency in a group communication network, comprising:
- means for receiving a dormant-wakeup trigger directed to a target communication device;
  - means for triggering the target communication device to re-establish its traffic channel; and
  - means for storing the dormant-wakeup trigger for later transmission to the target communication device.

- [c6] 6. The apparatus of claim 1, further including:  
means for transmitting the stored dormant-wakeup trigger to the target mobile as soon as the target mobile has re-established a traffic channel.
- [c7] 7. An apparatus for reducing latency in a group communication network, the communication device comprising:  
a memory unit;  
a receiver;  
a transmitter; and  
a processor communicatively coupled to the memory unit, the receiver, and the transmitter, the processor being capable of:  
receiving a dormant-wakeup trigger directed to a target communication device;  
triggering the target communication device to re-establish its traffic channel; and  
storing the dormant-wakeup trigger for later transmission to the target communication device.
- [c8] 8. The apparatus of claim 7, wherein the processor is further capable of:  
transmitting the stored dormant-wakeup trigger to the target mobile as soon as the target mobile has re-established a traffic channel.